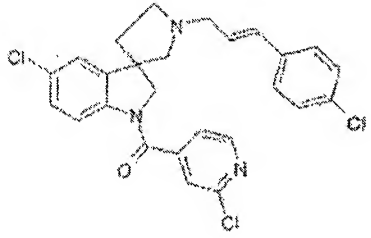
Attachment: SEARCH FOR 10581174.docx

Case/Application number: **10581174** PALM
Priority App. Filing Date: **12/12/03**
Format for Search Results: **SCORE & EMAIL**

Meaning of unusual acronyms or initialisms:

Identify the novelty:
STRUCTURE SEARCH please search compound III-49 (see attached word document)

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FILE 'HCAPLUS' ENTERED AT 11:22:03 ON 30 AUG 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 30 Aug 2011  VOL 155 ISS 10
FILE LAST UPDATED: 29 Aug 2011  (20110829/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2011
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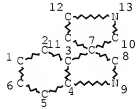
HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2011.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d stat que l12
L7 STR



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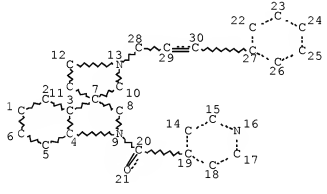

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L12  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER:         2005:588986  HCAPLUS  Full-text
DOCUMENT NUMBER:          143:115437
TITLE:                    Preparation of spiroindolines as pesticides
INVENTOR(S):              Cassayre, Jerome; Molleyres, Louis-Pierre; Maienfisch,
                          Peter; Cederbaum, Fredrik
PATENT ASSIGNEE(S):       Syngenta Participations A.-G., Switz.
SOURCE:                   PCT Int. Appl., 121 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

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     ES 2308278           T3    20081201    ES 2004-801364         20041209
     IN 2006CN02087       A     20070706    IN 2006-CN2087         20060612
     US 20090042859       A1    20090212    US 2008-581174         20081007
PRIORITY APPLN. INFO.:                       GB 2003-28907       A  20031212
                                             WO 2004-IB4070      W  20041209
OTHER SOURCE(S):          CASREACT 143:115437; MARPAT 143:115437
GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *
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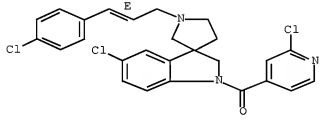
AB Title compds. I [W = (R4)n; n = 0-4; X = (CRa2)p; Z = (CRa2)q; Ra = H, halo, OH, etc.; p = 0-6; q = 0-6; Y = single bond, CO, CS, etc.; R1 = H, alkyl, alkoxycarbonyl, etc.; R2, R3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; R8 = alkyl, alkenyl, alkynyl, etc.] and N-oxides were prepd.. For example, N-benzoylation of indole II with 2-chloroisonicotinoyl chloride afforded spiroindoline III. In diamoundback moth protection assays, 2-examples of compds. I at 18.2 ppm exhibited at least 80% protection after 5-days.

IT 857677-42-0P 857677-43-1P
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of spiroindolines as pesticides)

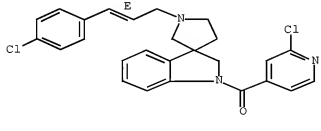
RN 857677-42-0 HCAPLUS
CN Methanone, [5-chloro-1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1,2-dihydrospiro[3H-indole-3,3'-pyrrolidin]-1-yl](2-chloro-4-pyridinyl)-(CA INDEX NAME)

Double bond geometry as shown.



RN 857677-43-1 HCAPLUS
CN Methanone, [1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1,2-dihydrospiro[3H-indole-3,3'-pyrrolidin]-1-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.



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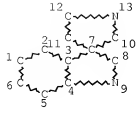

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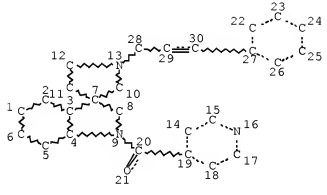

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OR PRY=<2003 OR PD=<JANUARY 12, 2004)

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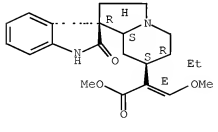
L22 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1998:688182 HCAPLUS Full-text
DOCUMENT NUMBER: 130:129822
TITLE: Protection of native Sichuan crude drugs from mildewing and moth-eating by 60Co-γ ray radiation
AUTHOR(S): Zhong, Hailuo; Dong, Yu; Dong, Yuning; Chen, Kewen; Liu, Junying; Gong, Jianhua
CORPORATE SOURCE: Sichuan Cancer Institute, Chengdu, 610041, Peop. Rep. China
SOURCE: Zhongguo Yaoxue Zazhi (Beijing) (1998), 33(9), 520-523
CODEN: ZYZAEU; ISSN: 1001-2494
PUBLISHER: Zhongguo Yaoxuehui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The protection of native Sichuan crude drugs from mildewing and moth-eating by 60Co-γ ray radiation was studied. Seven native Sichuan crude drugs were selected as samples to define the optimal radiation dose. The effects of radiation on protecting the medicines from mildewing and moth-eating were determined according to the growth rate of microbes, and the changes in morphol., toxicity and main active fractions were studied. The results showed that the morphol., toxicity and main active fractions of the samples were not changed after radiation with 8 000 Gy, which was the most ED for protecting the samples from mildewing and moth-eating. The radiation with 60Co-γ ray was an economical, safe and effective way to protect the native Sichuan crude drugs from mildewing and moth-eating.

IT 76-66-4, Rhynchophylline 6859-01-4
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protection of native Sichuan crude drugs from mildewing and moth-eating by 60Co-γ ray radiation)

RN 76-66-4 HCAPLUS
CN Spiro[3H-indole-3,1'(5'H)-indolizine]-7'-acetic acid, 6'-ethyl-1,2,2',3',6',7',8',8'a-octahydro-α-(methoxymethylene)-2-oxo-, methyl ester, (αE,1'R,6'R,7'S,8'aS)- (CA INDEX NAME)

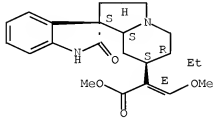
Absolute stereochemistry.
Double bond geometry as shown.



RN 6859-01-4 HCAPLUS

CN Spiro[3H-indole-3,1'(5'H)-indolizine]-7'-acetic acid, 6'-ethyl-1,2,2',3',6',7',8',8'a-octahydro-α-(methoxymethylene)-2-oxo-, methyl ester, (αE,1'S,6'R,7'S,8'aS)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



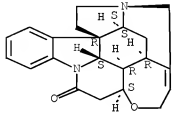
L22 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1991:203896 HCAPLUS Full-text
DOCUMENT NUMBER: 114:203896
ORIGINAL REFERENCE NO.: 114:34304h,34305a
TITLE: Fate of plant-derived secondary metabolites in three moth species (Syntomis mogadorensis, Syntomeida epilais, and Creatonotos transiens)
AUTHOR(S): Wink, Michael; Schneider, Dietrich
CORPORATE SOURCE: Inst. Pharm. Biol., Univ. Heidelberg, Heidelberg, D-6900, Germany
SOURCE: Journal of Comparative Physiology, B: Biochemical, Systemic, and Environmental Physiology (1990), 160(4), 389-400
CODEN: JPBPDL; ISSN: 0174-1578
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Larvae of 3 moth species were compared with respect to strategies used to cope with secondary metabolites (allelochems.) present in their diet. Syntomeida epilais is monophagous and accepted only oleander (which contains cardenolides, CG). CG were detected as stored products in the larvae and also in the feces and exuviae. Pure CG (digoxin and gitoxin), which do not occur in oleander, fed on oleander leaves were sequestered as the oleander, CG. Syntomis mogadorensis is polyphagous: given a choice larvae avoided plants with a high load of allelochems. Upon shortage of preferred plants they ate a wide variety of plants which contain alkaloids, terpenes, or phenolics. Of these allelochems., alkaloids and CG were mainly recovered in the feces and only minute fractions in the larvae. Creatonotos transiens larvae behaved similarly to Syntomis in terms of polyphagy and non-resorption. However, the larvae took up and stored pyrrolizidine alkaloids (PA), such as heliotrine selectively. Creatonotos is thus polyphagous (a generalist) but also a PA-specialist which exploits PA as defensive agents, as a morphogen for the male pheromone gland, and as a precursor for the male pheromone.

IT 57-24-9, Strychnine 357-57-3, Brucine
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

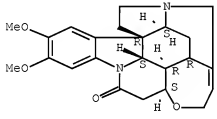
(feeding deterrence by, in moth)
RN 57-24-9 HCAPLUS
CN Strychnidin-10-one (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 357-57-3 HCAPLUS
CN Strychnidin-10-one, 2,3-dimethoxy- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L22 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1982:195063 HCAPLUS Full-text
DOCUMENT NUMBER: 96:195063
ORIGINAL REFERENCE NO.: 96:32093a,32096a
TITLE: Biological evaluation of the effect of some chemosterilants on the propagating potential of Laspeyresia funebrana Tr. (Tortricidae; Lepidoptera)
AUTHOR(S): Velcheva, N.
CORPORATE SOURCE: Inst. Plant Prot., Kostinbrod, Bulg.
SOURCE: Gradinarska i Lozarska Nauka (1981), 18(4), 9-17
CODEN: GRLNA9; ISSN: 0436-2624
DOCUMENT TYPE: Journal
LANGUAGE: Bulgarian
GI

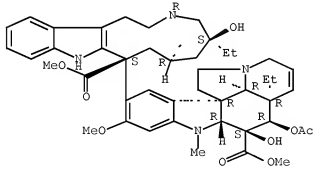
AB Contacting newly hatched 2nd-generation Tortricid plum moths (L. funebrana) males with surfaces treated with 1% Dimatif (I) [14465-96-4] or 0.5% Thiophosphamide (II) [52-24-4] gave a complete sterilization without affecting longevity or copulation vigor. The males sterilized with I induced egg sterility more effectively than did those sterilized with II. Males sterilized with I competed successfully with the normal ones in fertilizing females only at a ratio of 10:1:1 (sterilized males:nonsterilized males:females, resp.) and induced a 93.21% egg sterility. The average number of copulations of one male equals 3.71 ,while the maximum one is 10. The correlation coefficient between the copulation frequency rate and the average longevity of the males is 0.65 . Since the maximum number of copulations was recorded during the 2nd day after the butterflies had emerged, males should be treated and released to control the natural population at the 1st day after emergence. Dietary administration of 0.1% vinblastin [865-21-4] sterilized males by 23.38%, and sterilized females by 99.35% by inhibition of egg formation. Ftorafur, citonal and citembena were ineffective, whereas dichlorodiethylhydrazine [81661-97-4] shortened the male life span from 11 to 2.33 days.

IT 865-21-4
RL: BIOL (Biological study)
(Cydia funebrana sterilization by)

RN 865-21-4 HCAPLUS

CN Vincaleukoblastine (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L22 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER:	1978:487495 HCAPLUS Full-text
DOCUMENT NUMBER:	89:87495
ORIGINAL REFERENCE NO.:	89:13369a,13372a
TITLE:	Reaction of surface lamella of moth spermatozoa to vinblastine
AUTHOR(S):	Friedlander, Michael; Gershon, Janine
CORPORATE SOURCE:	Dep. Biol., Ben Gurion Univ., Beer Sheva, Israel
SOURCE:	Journal of Cell Science (1978), 30, 353-61 CODEN: JNCSAI; ISSN: 0021-9533
DOCUMENT TYPE:	Journal
LANGUAGE:	English

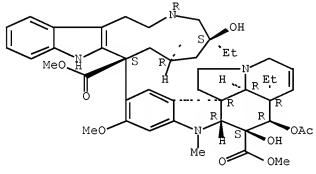
AB Previous ultrastructural studies indicating that the lacinate appendages (laminar structures covering the surface of moth sperm) of warehouse moths (Ephestia cautella) may be intracellular derivs. of transient microtubules found in the elongating spermatids of these insects were confirmed in present studies in which testes of the warehouse moth were treated in vivo with vinblastine sulfate. Solns. containing 10-5M vinblastine caused the lacinate appendages to become poorly resolved, and at 10-3M they disappeared. This concentration-dependent response of the appendages to vinblastine resembles that of tubulin-containing structures.

IT 865-21-4
RL: BIOL (Biological study)
(sperm surface lamella response to, in warehouse moth)

RN 865-21-4 HCAPLUS

CN Vincaleukoblastine (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



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L22 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1973:413987 HCAPLUS Full-text

DOCUMENT NUMBER: 79:13987

ORIGINAL REFERENCE NO.: 79:2243a,2246a

TITLE: Origin and protective function of alkaloids in plants. I. Protoparce sexta, an insect which is tolerant to a broad spectrum of alkaloids

AUTHOR(S): Nowacki, Edmund; Waller, George R.

CORPORATE SOURCE: Dep. Biochem., Oklahoma State Univ., Stillwater, OK, USA

SOURCE: Flora (Jena) (1973), 162(1-2), 108-17
CODEN: FLRABG; ISSN: 0367-2530

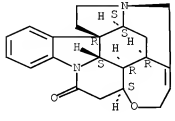
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Larvae of the tobacco hawk moth, P. sexta, grew normally when fed leaves of Lycopersicon, Datura, and Nicotiana. They also ate tomato leaves infiltrated with certain alkaloids. Strychnine [57-24-9] and ricinine [524-40-3] were lethal, sparteine [90-39-1] killed 2 of 3 larvae, and methylcytosine [554-01-8] was harmless. Leaves of alkaloid-containing non-Solanaceae plants were not eaten. Most of the ingested alkaloids were accounted for in the feces, and only traces could be found in the larval bodies.

IT 57-24-9
RL: PRP (Properties)
(toxicity of, to tobacco hawk moth)
RN 57-24-9 HCAPLUS
CN Strychnidin-10-one (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



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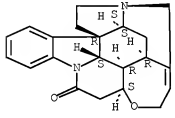
L22 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1910:12999 HCAPLUS Full-text
DOCUMENT NUMBER: 4:12999
ORIGINAL REFERENCE NO.: 4:2339b-g
TITLE: The Influence of Strychnine-containing Food upon Insects
AUTHOR(S): Juckenack, A.; Griebel, C.
SOURCE: Zeitschrift fuer Untersuchung der Nahrungs- und Genussmittel sowie der Gebrauchsgegenstaende (1910), 19, 571
CODEN: ZNGEA2; ISSN: 0372-9419
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Strychnine has an unfavorable effect on micro-organisms and in a tincture for killing moths the strychnine acts as a preservative and not as a poison for the moths and their caterpillars. The first experiment was for the purpose of determining whether a moth tincture prepared with an intensely bitter, but relatively non-poisonous material was as active after the addition of strychnine as before, and whether the tincture was more active When freshly prepared. Pieces of wool were impregnated with the different tinctures and after drying introduced into square boxes covered with wire gauze. In a third box was placed pieces of impregnated fabric, together with a piece free from any sort of tincture, in order to observe whether the moth would avoid the impregnated pieces when searching for a place to lay its eggs. During the flight the greatest number possible almost exclusively Linea pellionella L. were caught alive and distributed among the boxes. In the autumn of the same year an exam. of the pieces of wool showed them all to be moth-eaten, but it was remarkable that the unimpregnated piece had been the least attacked. The moth was unable to avoid the impregnated fabric and the caterpillar was not killed by the strychnine. The amount of strychnine in the tincture was 0.5%. The effect of the strychnine was observed upon the miller (Ephestia kuhmilla) and on a small beetle (Anabium paniceum L.). I. 50 grams meal were saturated with an alc. solution of 0.05 g. strychnine nitrate and dried over the steam bath. The meal was placed in an Erlenmeyer

flask and 12 millers added. After awhile it was noticed that the young caterpillars were influenced unfavorably, they developed slowly and did not attain their normal size. Those which survived, however, went into the pupal state and came out as normal millers. II. 50 g. barley were treated with an aqueous solution of 0.05 g. strychnine nitrate, dried, placed in an Erlenmeyer flask and twelve beetles added. The beetles throve on the food and multiplied faster than those in a flask containing normal grain. The larval excrement was carefully separated and on examination was found to contain strychnine, showing that the alkaloid had passed unchanged through the insect's body.

IT 57-24-9, Strychnine
(effect on insects)
RN 57-24-9 HCAPLUS
CN Strychnidin-10-one (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



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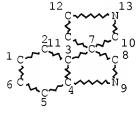
L7 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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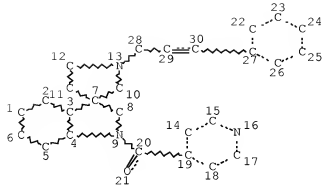

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

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L14	30728	SEA FILE=HCAPLUS ABB=ON PLU=ON L13
L17	17020	SEA FILE=HCAPLUS ABB=ON PLU=ON MOTH+OLD/CV OR ANTIMOTH OR MOTH
L20	9	SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L14
L21	8	SEA FILE=HCAPLUS ABB=ON PLU=ON L20 NOT L12
L22	6	SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (AY=<2003 OR PY=<2003 OR PRY=<2003 OR PD=<JANUARY 12, 2004)
L23	72	SEA FILE=HCAPLUS ABB=ON PLU=ON CASSAYRE J?/AU
L24	37	SEA FILE=HCAPLUS ABB=ON PLU=ON MOLLEYRES L?/AU
L25	163	SEA FILE=HCAPLUS ABB=ON PLU=ON MAIENFISCH P?/AU
L26	76	SEA FILE=HCAPLUS ABB=ON PLU=ON CEDERBAUM F?/AU
L27	49	SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND (L24 OR L25 OR L26)
L28	16	SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND (L25 OR L26)
L29	16	SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26
L30	2	SEA FILE=HCAPLUS ABB=ON PLU=ON (L23 OR L24 OR L25 OR L26) AND (L12 OR L14)
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L32	52	SEA FILE=HCAPLUS ABB=ON PLU=ON L31 NOT (L12 OR L22)

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L32 ANSWER 1 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:1036626 HCAPLUS Full-text
TITLE: Synthesis and biological activity of spiroindoline N-oxides
AUTHOR(S): Maienfisch, Peter; Roberts, Richard S.; Cassayre, Jerome; Molleyres, Louis-Pierre; Winkler, Tammo; Hillesheim, Elke

CORPORATE SOURCE: Syngenta Crop Protection AG, Basel, CH-4332, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-137. American Chemical Society: Washington, D. C.
CODEN: 69OLKE
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Syngenta researchers have recently discovered a new class of exploratory insecticides active against a wide range of lepidopteran pests - the spiroindolines. In order to alter the physico-chemical properties of the lead compound SYN876, such as lipophilicity, basicity and photostability, we designed and synthesized the spiroindolines-N-oxides. This presentation will report the synthesis, insecticidal activity, properties and structure-activity trends of this novel spiroindoline subclass.

L32 ANSWER 2 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:1036625 HCAPLUS Full-text
TITLE: Effect of halogen and trifluoromethyl substituents on the biological activity of spiroindolines
AUTHOR(S): Maienfisch, Peter; Cassayre, Jerome Cassayre; Molleyres, Louis-Pierre; Roberts, Richard S.; Hughes, Dave J.; Hillesheim, Elke
CORPORATE SOURCE: Syngenta Crop Protection AG, Basel, CH-4002, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-136. American Chemical Society: Washington, D. C.
CODEN: 69OLKE
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Spiroindolines are a recently discovered class of insecticides active against a wide range of lepidopteran pests. As part of our optimization program we investigated the effect of halogen and trifluoromethyl substituents on the spiroindoline core (R1), the cinnamyl moiety (R2) and the pyridyl group (R3). This presentation will report the synthetic methodol. applied to the preparation of our target compds. as well as the biol. activity and structure-activity relationships of halogenated and trifluoromethyl substituted spiroindolines.

L32 ANSWER 3 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:1036624 HCAPLUS Full-text
TITLE: Discovery of spiroindolines: A new class of insecticides with a novel mode of action
AUTHOR(S): Cassayre, Jerome; Maienfisch, Peter; Roberts, Richard S.; Worthington, Paul A.; Hughes, Dave J.; Molleyres, Louis-Pierre; Cederbaum, Fredrik; Hillesheim, Elke; Sluder, Ann; Earley, Fergus; Shah, Sheetal
CORPORATE SOURCE: Syngenta Crop Protection AG, Basel, CH-4002, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-135. American Chemical Society: Washington, D. C.
CODEN: 69OLKE

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Substituted spiro[indoline-3,4'-piperidine] compds. (spiroindolines) are a recently discovered class of insecticides which act at the vesicular acetylcholine transporter (VAChT). Our initial optimization program resulted in the discovery of SYN876, a new exploratory insecticide for the control of lepidopteran pests. This presentation will describe the discovery, optimization, synthesis, biol., mode of action and some structure-activity relationships of these novel spiroindoline compds.

L32 ANSWER 4 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:1036519 HCAPLUS Full-text
TITLE: Design, synthesis, and properties of acyclic spiroindoline insecticides
AUTHOR(S): Maienfisch, Peter; Cassayre, Jerome; Cederbaum, Fredrick; Corsi, Camilla; Molleyres, Louis-Pierre; Pitterna, Thomas; Hillesheim, Elke
CORPORATE SOURCE: Crop Protection Research, Syngenta Crop Protection AG, Basel, CH-4002, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-27. American Chemical Society: Washington, D. C. CODEN: 69OLKE
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Spiroindolines are a recently discovered class of insecticides which originated from a weak screening hit. A initial optimization program led to the discovery of SYN876, a new exploratory insecticide for the control of lepidoptera. This talk will review the evolution of this area and focus specifically on the design, synthesis, insecticidal activity, and structure-activity trends of acyclic analogs of SYN876. This work resulted in the identification of SYN380 - a compound with improved activity against lepidopteran pests.

L32 ANSWER 5 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:50378 HCAPLUS Full-text
DOCUMENT NUMBER: 154:158481
TITLE: Preparation of piperidine derivatives as insecticides
INVENTOR(S): Cassayre, Jerome Yves; Pitterna, Thomas; Corsi, Camilla; Maienfisch, Peter
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 51pp. CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011003684	A1	20110113	WO 2010-EP57907	20100607
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP,				

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MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE,
PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV,
SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
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TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.: EP 2009-164662 A 20090706
OTHER SOURCE(S): MARPAT 154:158481
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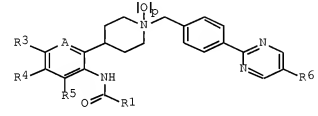

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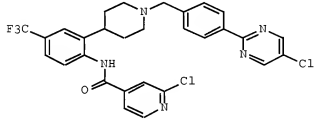

II

AB The title compds. I [A = CR2 or N; p = 0-1; R1 = (un)substituted pyrid-4-yl; R2 = H, halo, haloalkyl, haloalkoxy; R3, R4 = H, halo, CN, alkyl, etc.; R5 = H or halo; R6 = H, halo, CN, alkyl, etc.], useful as insecticides, acaricides, nematocides and molluscicides, were prepared E.g., a multi-step synthesis of II, starting from 2-bromo-4-trifluoromethylaniline and tert-Bu 4-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-3,6-dihydro-2H-pyridine -1- carboxylate, was given. Exemplified compds. I were tested for their pesticidal/insecticidal properties (data given). Furthermore, the present invention relates to intermediates used to prepare compds. I, to methods of using them to combat and control insect, acarine, nematode and mollusc pests and to insecticidal, acaricidal, nematicidal and molluscicidal compns. comprising them.
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 6 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:869121 HCAPLUS Full-text
DOCUMENT NUMBER: 153:105229
TITLE: Spiroheterocyclic N-oxypiperidines as pesticides
INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Cassayre, Jerome Yves; Edmunds, Andrew; Corsi, Camilla; El

Qacemi, Myriem; Hall, Roger Graham; Jeanguenat, Andre; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maienfisch, Peter; Carter, Neil Brian

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 176pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010066780	A1	20100617	WO 2009-XB66710	20091209
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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WO 2010066780	A1	20100617	WO 2009-EP66710	20091209
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PRIORITY APPLN. INFO.: GB 2008-22748 A 20081212
GB 2009-5237 A 20090326
WO 2009-EP66710 20091209

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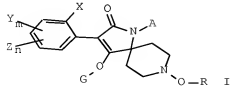

AB A compound of the formula (I), wherein the substituents are as defined in the text, are useful as a pesticides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 7 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:869120 HCAPLUS Full-text
DOCUMENT NUMBER: 153:105228
TITLE: Spiroheterocyclic N-oxypiperidines as pesticides
INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Cassayre, Jerome Yves; Edmunds, Andrew; Corsi, Camilla; El Qacemi, Myriem; Hall, Roger Graham; Jeanguenat, Andre; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maienfisch, Peter; Carter, Neil Brian
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 176pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010066780	A1	20100617	WO 2009-XA66710	20091209
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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WO 2010066780	A1	20100617	WO 2009-EP66710	20091209
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PRIORITY APPLN. INFO.:	GB 2008-22748	A 20081212
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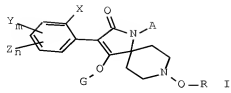

AB A compound of the formula (I), wherein the substituents are as defined in the text, are useful as a pesticides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 8 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:840693 HCAPLUS Full-text
DOCUMENT NUMBER: 153:75908
TITLE: Spiroheterocyclic N-oxyamides as pesticides
INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Jeanguenat, Andre; El Qacemi, Myriem; Hall, Roger Graham; Edmunds, Andrew; Corsi, Camilla; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maienfisch, Peter; Cassayre, Jerome Yves
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 218pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010063670	A1	20100610	WO 2009-XA66039	20091130
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
WO 2010063670	A1	20100610	WO 2009-EP66039	20091130
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GB 2009-5340 A 20090327
WO 2009-EP66039 20091130

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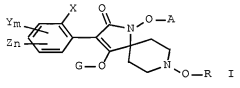

AB Novel compds. of the formula (I), wherein the substituents are as defined in claims, were prepared and compns. containing them and their use as insecticides, acaricides, nematicides or molluscicides are described. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 9 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:750009 HCAPLUS Full-text
DOCUMENT NUMBER: 153:78843
TITLE: Spiroheterocyclic N-oxypiperidines as pesticides
INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Cassayre, Jerome Yves; Edmunds, Andrew; Corsi, Camilla; El Qacemi, Myriem; Hall, Roger Graham; Jeanguenat, Andre; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maienfisch, Peter; Carter, Neil Brian
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 176pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010066780	A1	20100617	WO 2009-EP66710	20091209

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE,

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AU 2009324389 A1 20100617 AU 2009-324389 20091209
CA 2746394 A1 20100617 CA 2009-2746394 20091209
WO 2010066780 A1 20100617 WO 2009-XA66710 20091209
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CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,
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WO 2010066780 A1 20100617 WO 2009-XB66710 20091209
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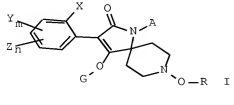
ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

KR 2011094337 A 20110823 KR 2011-7016084 20091209
AR 74581 A1 20110126 AR 2009-104789 20091210
PRIORITY APPLN. INFO.: GB 2008-22748 A 20081212
GB 2009-5237 A 20090326
WO 2009-EP66710 W 20091209

OTHER SOURCE(S): MARPAT 153:78843
GI



AB A compound of the formula (I), wherein the substituents are as defined in the text, are useful as a pesticides. [This abstract record is one of 3

records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 10 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:720113 HCAPLUS Full-text
DOCUMENT NUMBER: 153:30457
TITLE: Spiroheterocyclic N-oxyamides as pesticides
INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Jeanguenat, Andre; El Qacemi, Myriem; Hall, Roger Graham; Edmunds, Andrew; Corsi, Camilla; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maienfisch, Peter; Cassayre, Jerome Yves
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 218pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010063670	A1	20100610	WO 2009-EP66039	20091130
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2009324246	A1	20100610	AU 2009-324246	20091130
CA 2744128	A1	20100610	CA 2009-2744128	20091130
WO 2010063670	A1	20100610	WO 2009-XA66039	20091130
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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AR 74422	A1	20110119	AR 2009-104601	20091130
EP 2352376	A1	20110810	EP 2009-793493	20091130
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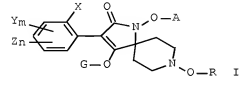
SI, SK, SM, TR
PRIORITY APPLN. INFO.: GB 2008-22005 A 20081202
GB 2009-5340 A 20090327
WO 2009-EP66039 W 20091130
OTHER SOURCE(S): CASREACT 153:30457; MARPAT 153:30457
GI



AB Novel compds. of the formula (I), wherein the substituents are as defined in claims, were prepared and compns. containing them and their use as insecticides, acaricides, nematicides or molluscicides are described. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 11 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:336887 HCAPLUS Full-text
TITLE: Spiroindolines: Discovery of a novel class of insecticides
AUTHOR(S): Cassayre, Jerome; Hughes, Dave J.; Roberts, Richard S.; Worthington, Paul A.; Cederbaum, Fredrik; Maienfisch, Peter; Molleyres, Louis-Pierre
CORPORATE SOURCE: Research Chemistry, Syngenta Crop Protection AG, Stein, CH-4332, Switz.
SOURCE: Abstracts of Papers, 239th ACS National Meeting, San Francisco, CA, United States, March 21-25, 2010 (2010) , AGRO-7. American Chemical Society: Washington, D. C.
CODEN: 69MML8
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Substituted spiro[indoline-3,4'-piperidine] compds. (Spiroindolines) are a new class of insecticides, which possess a novel neuroactive mode of action and provide excellent activity against lepidopteran pests. The discovery, synthesis, biol. and structure-activity relationships of these novel spiroindoline compds. will be presented.

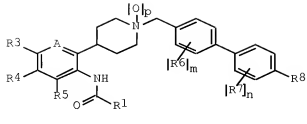
L32 ANSWER 12 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:111326 HCAPLUS Full-text
DOCUMENT NUMBER: 152:191963
TITLE: Preparation of insecticidal phenyl- or pyridyl-piperidine compounds
INVENTOR(S): Pitterna, Thomas; Cassayre, Jerome Yves; Corsi, Camilla; Maienfisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 77pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010009968	A1	20100128	WO 2009-EP58482	20090706
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2009273368	A1	20100128	AU 2009-273368	20090706
CA 2730158	A1	20100128	CA 2009-2730158	20090706
KR 2011033292	A	20110330	KR 2011-7003948	20090706
EP 2324010	A1	20110525	EP 2009-780170	20090706
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, AL, BA, RS				
CN 102105461	A	20110622	CN 2009-80128437	20090706
AR 72874	A1	20100929	AR 2009-102756	20090720
MX 2011000435	A	20110301	MX 2011-435	20110111
US 20110136866	A1	20110609	US 2011-55204	20110121

PRIORITY APPLN. INFO.: GB 2008-13436 A 20080722
WO 2009-EP58482 W 20090706

OTHER SOURCE(S): CASREACT 152:191963; MARPAT 152:191963
GI



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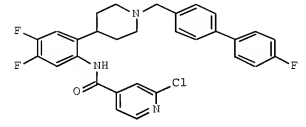

II

AB The title compds. I [A = CR2, N; p = 0-1; R1 = (un)substituted pyrid-4-yl; R2 = H, halo, haloalkyl, haloalkoxy; R3, R4 = H, halo, CN, etc.; R5 = H or halo; R6, R7 = halo, alkyl, haloalkyl, etc.; m = 0-2; n = 0-2; R8 = H, halo, CN, etc.] were prepared Thus, reacting 2-chloro-N-[4,5-difluoro-2-(piperidin-4-yl)phenyl]isonicotinamide with 4-chloromethyl-4'-fluorobiphenyl afforded compound II. Exemplified compds. I were tested for their pesticidal/insecticidal activity. For example, II showed at least 80% control of Spodoptera littoralis, Heliothis virescens, and Plutella xylostella. Furthermore, the present invention relates to intermediates used to prepare compds. I, to methods of using compds. I to combat and control insect, acarine, nematode and mollusc pests and to insecticidal, acaricidal, nematicidal and molluscicidal compns. comprising them.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 13 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1433828 HCAPLUS Full-text
DOCUMENT NUMBER: 151:571019
TITLE: Preparation of insecticidal N-bipyridinyl amides
INVENTOR(S): Cassayre, Jerome Yves; Corsi, Camilla; Pitterna, Thomas; Maienfisch, Peter
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 57pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009138219	A2	20091119	WO 2009-EP3395	20090513
WO 2009138219	A3	20100121		

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PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
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AU	2009248294	A1	20091119	AU 2009-248294	20090513
CA	2723454	A1	20091119	CA 2009-2723454	20090513
KR	2011010726	A	20110207	KR 2010-7025526	20090513
EP	2297136	A2	20110323	EP 2009-745553	20090513
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CN	102026997	A	20110420	CN 2009-80117518	20090513
JP	2011523635	T	20110818	JP 2011-508832	20090513
MX	2010012251	A	20101217	MX 2010-12251	20101109
US	20110071191	A1	20110324	US 2010-992711	20101115

PRIORITY APPLN. INFO.: GB 2008-8888 A 20080515
WO 2009-EP3395 W 20090513

OTHER SOURCE(S): CASREACT 151:571019; MARPAT 151:571019

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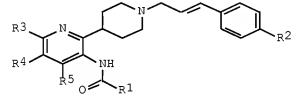

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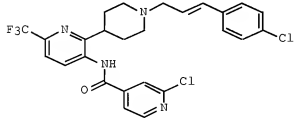


II

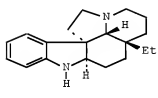
AB The title compds. I [R1 = pyrid-4-yl optionally substituted by 1-4 substituents selected from halo, alkyl or haloalkyl; R2 = H, halo, haloalkyl or haloalkoxy; R3 = CF3, CF2H, OCF2H and R4 = H, F or Cl; or R3 = F, Cl or Br and R4 = F, Cl, CF3; and R5 = H or halo; or salts or N-oxides thereof], useful for combating and controlling insect, acarine, mollusc and nematode pests, were prepared A multi-step synthesis of (E)-II, starting from

3-amino-2-chloro-6-trifluoromethylpyridine and tert-Bu 4-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-3,6-dihydro-2H-pyridine -1- carboxylate, was given. Exemplified compds. I were tested against various insects (data given for representative compds. I). The present invention relates also to intermediates used to prepare compds. I, to methods of using them to combat and control insect, acarine, mollusc and nematode pests and to insecticidal, acaricidal, molluscicidal and nematicidal compns. comprising them.

L32 ANSWER 14 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:705066 HCAPLUS Full-text
DOCUMENT NUMBER: 151:213685
TITLE: New ventures in the chemistry of avermectins
AUTHOR(S): Pitterna, Thomas; Cassayre, Jerome; Huter, Ottmar Franz; Jung, Pierre M. J.; Maienfisch, Peter; Kessabi, Fiona Murphy; Quaranta, Laura; Tobler, Hans
CORPORATE SOURCE: Crop Protection Research, Chemistry, Syngenta Crop Protection Munchwilen AG, Stein, CH-4332, Switz.
SOURCE: Bioorganic & Medicinal Chemistry (2009), 17(12), 4085-4095
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review. An overview is given on recent work towards new avermectin derivs. of extremely high insecticidal and acaricidal activity. These compds. were prepared from com. available abamectin (avermectin B1). For the synthesis, many novel entries have been opened up, making use of modern synthetic methods and applying them, for the first time, to the chemical of avermectins. Several types of avermectin derivs. can be regarded as key innovations in the field. These are, in particular, 4''-deoxy-4''-(S)-amino avermectins, 4'-O-alkoxyalkyl avermectin monosaccharides, 4''-deoxy-4''-C-substituted 4''-amino avermectins, and 2''-substituted avermectins. 4''-Deoxy-4''-(S)-amino avermectins were obtained by the consecutive application of the Staudinger and Aza-Wittig reaction. 4'-O-Alkoxyalkyl avermectin monosaccharides were prepared by alkoxyalkylation of 5-O-protected avermectin monosaccharide. For the synthesis of 4''-deoxy-4''-C-substituted 4''-amino avermectins, several methods were used to construct the fully substituted 4''-carbon center, such as a modified Strecker synthesis, the addition of organometallics to a 4''-sulfinimine and a modified Ugi approach. To prepare 2''-substituted avermectins, 5-O-protected avermectin monosaccharide was coupled with carbohydrate building blocks. An alternative synthesis involved the hitherto unknown enol ether chemical of 4''-oxo-avermectin and the conjugate addition of a cuprate to an avermectin 2'',3''-en-4''-one. In addition, a number of other highly potent derivs. were synthesized. Examples are 4''-O-amino avermectins, as well as products arising from intramol. rhodium-catalyzed amidations and carbene insertions. A radical cyclization led to an intriguing rearrangement of the avermectin skeleton. Many of the new avermectins surpassed the activity of abamectin against insects and mites.
OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 15 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:581318 HCAPLUS Full-text
DOCUMENT NUMBER: 149:129011
TITLE: Amidyls in radical cascades. The total synthesis of (±)-aspidospermidine and (±)-13-deoxyserratine
AUTHOR(S): Callier-Dublanchet, Anne-Claude; Cassayre, Jerome; Gagosz, Fabien; Quiclet-Sire, Beatrice; Sharp, Lisa A.; Zard, Samir Z.
CORPORATE SOURCE: Laboratoire de Synthese Organique - C. N. R. S., Departement de Chimie, Ecole Polytechnique, Palaiseau, F-91128, Fr.
SOURCE: Tetrahedron (2008), 64(21), 4803-4816
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:129011
GI



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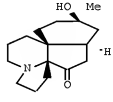


II

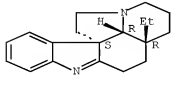
AB Concise routes to (±)-aspidospermidine (I) and 13-deoxyserratine (II) were described and hinged on a cascade starting from an amidyl radical that allowed the construction of the key indolizidine cores in one step.

IT 65377-84-6P, (±)-Dehydroaspidospermidine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of the indolizidine alkaloids (±)-aspidospermidine and (±)-13-deoxyserratine via an amidyl radical cascade cyclization reaction)

RN 65377-84-6 HCAPLUS

CN Aspidospermidine, 1,2-didehydro-, (±)- (CA INDEX NAME)

Relative stereochemistry.



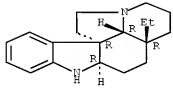
IT 7689-02-3P
RL: SPN (Synthetic preparation); PREP (Preparation)

(total synthesis of the indolizidine alkaloids (±)-aspidospermidine and (±)-13-deoxyserratine via an amidyl radical cascade cyclization reaction)

RN 7689-02-3 HCAPLUS

CN Aspidospermidine, (±)- (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

REFERENCE COUNT: 112 THERE ARE 112 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 16 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:841452 HCAPLUS Full-text

DOCUMENT NUMBER: 147:235145

TITLE: Preparation of diazaspiro[4.5]decanes as pesticides

INVENTOR(S): Pitterna, Thomas; Cassayre, Jerome; Molleyres, Louis-Pierre; Maienfisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 97pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

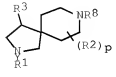
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007085945	A1	20070802	WO 2007-IB176	20070119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1979354	A1	20081015	EP 2007-700519	20070119
EP 1979354	B1	20091111		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				

JP 2009528265	T	20090806	JP 2008-550870		20070119
AT 448227	T	20091115	AT 2007-700519		20070119
ES 2336271	T3	20100409	ES 2007-700519		20070119
BR 2007007206	A2	20110426	BR 2007-7206		20070119
IN 2008DN05432	A	20081024	IN 2008-DN5432		20080623
CN 101370810	A	20090218	CN 2007-80002913		20080723
US 20100227862	A1	20100909	US 2008-161823		20080723
PRIORITY APPLN. INFO.:			GB 2006-1402	A	20060124
			WO 2007-IB176	W	20070119

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 147:235145; MARPAT 147:235145
GI



I

AB Title compds. [I; Y = bond, CO, CS, S, SO, SO2; R1 = H, (substituted) alkyl, alkoxy, alkoxycarbonyl, aryl, heteroaryl, etc.; R2 = halo, OH, cyano, (substituted) alkyl, alkenyl, alkynyl, alkoxycarbonyl, alkylaminocarbonyl, aryl, heteroaryl, etc.; R3 = (substituted) aryl, heteroaryl; R8 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, alkoxy, aryloxy, alkoxycarbonyl, etc.; p = 0-4], were prepared Thus, [8-[(E)-3-(4-chlorophenyl)allyl]-4-(4-fluorophenyl)-2,8-diazabicyclo[4.5]dec-2-yl](2-chloropyridin-4-yl)methanone was prepared in 6 steps from 4-fluorophenylacetonitrile, 1-benzylpiperidin-4-one, 2-chloroisonicotinoyl chloride, and (E)-1-chloro-4-(3-chloropropenyl)benzene. Numerous I at 200 ppm gave ≥80% control of Spodoptera littoralis on cotton leaf disks.

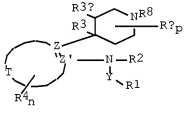
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 17 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:706107 HCAPLUS Full-text
DOCUMENT NUMBER: 147:118270
TITLE: Preparation of heterocyclic-substituted piperidine derivatives as insecticides, acaricides, nematocides or molluscicides
INVENTOR(S): Cassayre, Jerome; Maienfisch, Peter; Cederbaum, Fredrik; Molleyres, Louis-Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 65pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2007072143	A2	20070628	WO 2006-IB3585		20061206
WO 2007072143	A3	20071206			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW					
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA					
EP 1965651	A2	20080910	EP 2006-821055		20061206
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR					
JP 2009520803	T	20090528	JP 2008-546662		20061206
IN 2008DN05013	A	20080926	IN 2008-DN5013		20080610
CN 101355879	A	20090128	CN 2006-80050724		20080709
US 20090118295	A1	20090507	US 2008-97936		20080911
PRIORITY APPLN. INFO.:			GB 2005-26042	A	20051221
			WO 2006-IB3585	W	20061206

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 147:118270; MARPAT 147:118270
GI



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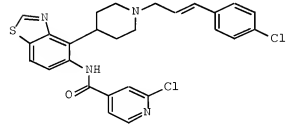

II

AB Title compds. [I; Y = a single bond, CO, CS, S(O)m, where m = 0-2; the ring containing T, Z and Z' is a 6-membered aromatic or a 5- or 6-membered heteroarom. ring; Z and Z' are joined by a single or a double bond and are :C or N, provided that both are not N; Ra, R1, R2, R3, R3a, R4 and R8 are specified organic groups; n = 2-4, p = 0-4] or salts or N-oxides thereof or

compns. containing them are claimed for controlling insects, acarines, nematodes or molluscs. E.g., (benzothiazol-5-yl)isonicotinamide derivative II (preparation given) showed ≥80% control of Spodoptera litteralis, Heliothis virescen, Plutella xylostella and Aedes aegypti.

L32 ANSWER 18 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:593432 HCAPLUS Full-text
DOCUMENT NUMBER: 146:516459
TITLE: Piperazine derivative acaricides, insecticides and nematocides
INVENTOR(S): Cassayre, Jerome; Maienfisch, Peter; Cederbaum, Fredrik; Molleyres, Louis-Pierre; Corsi, Camilla; Pitterna, Thomas
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 58pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007060541	A2	20070531	WO 2006-IB3425	20061124
WO 2007060541	A3	20071129		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: GB 2005-24197 A 20051128
OTHER SOURCE(S): MARPAT 146:516459
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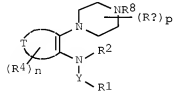


I

AB The use of the piperazine derivs. I [Y = single bond, C:O, C:S or S(O)m; R1 = H, (un)substituted alkyl, alkoxycarbonyl, alkylcarbonyl, etc.; R2 = H, OH,

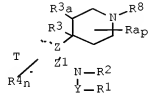
(un)substituted alkyl or alkoxy; R1YNR2 = ring; R4 = halo, nitro, cyano, thiocyanato; (un)substituted alkyl, alkenyl, alkynyl, etc., R8 = (un)substituted alkyl, alkenyl, alkynyl, etc.; Ra = OH, halo, cyano, (un)substituted alkyl, alkenyl, alkynyl, etc.; the T-containing ring is Ph or heterocyclyl; n = 2, 3 or 4; m = 0, 1 or 2; p = 0-4]; or salts or N-oxides thereof, for controlling insects, acarines, nematodes or molluscs, is given (no data). The preparation of I is outlined.

L32 ANSWER 19 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2006:30969 HCAPLUS Full-text
DOCUMENT NUMBER: 144:102389
TITLE: Piperidine derivatives as pesticides
INVENTOR(S): Maienfisch, Peter; Molleyres, Louis-Pierre; Cassayre, Jerome; Cederbaum, Fredrik; Corsi, Camilla; Pitterna, Thomas
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 161 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006003494	A2	20060112	WO 2005-IB2002	20050622
WO 2006003494	A3	20060615		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005258905	A1	20060112	AU 2005-258905	20050622
AU 2005258905	B2	20110310		
CA 2568808	A1	20060112	CA 2005-2568808	20050622
EP 1763302	A2	20070321	EP 2005-757532	20050622
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU				
CN 1976584	A	20070606	CN 2005-80021847	20050622
JP 2008504253	T	20080214	JP 2007-517523	20050622
BR 2005012659	A	20080401	BR 2005-12659	20050622
AP 1970	A	20090430	AP 2006-3830	20050622
NZ 551629	A	20100930	NZ 2005-551629	20050622
AR 49556	A1	20060816	AR 2005-102615	20050624
ZA 2006009687	A	20080130	ZA 2006-9687	20061121
MX 2006014005	A	20070208	MX 2006-14005	20061130
KR 2007029214	A	20070313	KR 2006-7027660	20061228
IN 2006CN04783	A	20070629	IN 2006-CN4783	20061228

US 20090042938	A1	20090212	US 2007-571303		20071024
PRIORITY APPLN. INFO.:			GB 2004-14438	A	20040628
			WO 2005-IB2002	W	20050622

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 144:102389
GI



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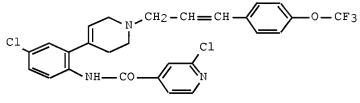


II

AB A method of controlling pests comprises applying an insecticidally, acaricidally, nematocidally, or molluscicidally effective amount of a compound of formula I, or salts or N-oxides thereof, where Y is a single bond, CO, CS, or S(O)m and m = 0, 1 or 2; the ring is a 6-membered aromatic or a 5- or 6-membered heteroarom. ring; Z and Z' are :C or N (but not both N); R1, R2, R3, R3a, R4, R8, and Ra are specified organic groups and n and p are independently 0, 1, 2, 3 or 4. Novel compds. are also provided, with preparative examples. Thus, II gave ≥80% control of Plutella xylostella (diamondback moth) and Aedes aegypti (yellow fever mosquito).

OS.CITING REF COUNT:	2	THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

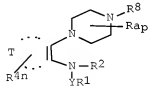
L32 ANSWER 20 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER:	2005:1290440 HCAPLUS Full-text
DOCUMENT NUMBER:	144:1648
TITLE:	Preparation of piperazine derivatives as pesticides
INVENTOR(S):	Cassayre, Jerome; Molleyres, Louis-Pierre; Maienfisch, Peter; Cederbaum, Fredrik; Corsi, Camilla; Pitterna, Thomas
PATENT ASSIGNEE(S):	Syngenta Participations AG, Switz.
SOURCE:	PCT Int. Appl., 114 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115146	A1	20051208	WO 2005-IB1468	20050512
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005247169	A1	20051208	AU 2005-247169	20050512
AU 2005247169	B2	20100701		
CA 2566138	A1	20051208	CA 2005-2566138	20050512
EP 1755396	A1	20070228	EP 2005-740468	20050512
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU				
CN 1976586	A	20070606	CN 2005-80021850	20050512
BR 2005011646	A	20080102	BR 2005-11646	20050512
JP 2008501008	T	20080117	JP 2007-514173	20050512
NZ 551174	A	20100827	NZ 2005-551174	20050512
AR 49116	A1	20060628	AR 2005-102146	20050524
ZA 2006009426	A	20080730	ZA 2006-9426	20061113
MX 2006013547	A	20070126	MX 2006-13547	20061122
IN 2006CN04371	A	20070615	IN 2006-CN4371	20061128
US 20080076777	A1	20080327	US 2007-569006	20070726
US 7807679	B2	20101005		
US 20110003991	A1	20110106	US 2010-882540	20100915

PRIORITY APPLN. INFO.: GB 2004-12072 A 20040528
WO 2005-IB1468 W 20050512
US 2007-569006 A3 20070726

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 144:1648; MARPAT 144:1648
GI



I

AB The piperazine derivs. [Y = bond, CO, CS or SO, SO, SO2 or aromatic or heteroarom. ring.; R1 = H, (un)substitiuted alkyl, alkoxycarbonyl, aminocarbonyl, etc.; R2 = H or (un)substituted alkyl; R2NYR1 = ring; R4 =

halo, nitro, cyano (un)substituted alkyl, etc.; R8 = (un)substituted alkyl, alkenyl, alkynyl, aryl, etc.; Ra = halo, OH, CN, (un)substituted alkyl, etc.; n, p = 0, 1-4] are prepared as pesticides for controlling insects, acarines, nematodes or molluscs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 21 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:588966 HCAPLUS Full-text
DOCUMENT NUMBER: 143:115453
TITLE: Preparation of spiropiperidines and related compounds as pesticides
INVENTOR(S): Molleyres, Louis-Pierre; Cassayre, Jerome; Cederbaum, Fredrik; Maienfisch, Peter
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 176 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061500	A1	20050707	WO 2004-IB4083	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004303618	A1	20050707	AU 2004-303618	20041209
AU 2004303618	B2	20100805		
CA 2547814	A1	20050707	CA 2004-2547814	20041209
EP 1694677	A1	20060830	EP 2004-806330	20041209
EP 1694677	B1	20091202		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1894249	A	20070110	CN 2004-80037007	20041209
CN 1894249	B	20110615		
BR 2004017544	A	20070327	BR 2004-17544	20041209
JP 2007516972	T	20070628	JP 2006-543658	20041209
CN 101544640	A	20090930	CN 2009-10139118	20041209
AT 450538	T	20091215	AT 2004-806330	20041209
ES 2337693	T3	20100428	ES 2004-806330	20041209
NZ 546995	A	20100730	NZ 2004-546995	20041209
CN 101940214	A	20110112	CN 2010-10285288	20041209
MX 2006006212	A	20060809	MX 2006-6212	20060601
ZA 2006004644	A	20071128	ZA 2006-4644	20060606
KR 2006123308	A	20061201	KR 2006-7011568	20060612
IN 2006CN02073	A	20070706	IN 2006-CN2073	20060612
US 20070135408	A1	20070614	US 2007-581176	20070129

US 7960401	B2	20110614			
HK 1097829	A1	20100416	HK 2007-101863		20070215
PRIORITY APPLN. INFO.:			GB 2003-28905	A	20031212
			CN 2004-80037007	A3	20041209
			WO 2004-IB4083	W	20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 143:115453; MARPAT 143:115453
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

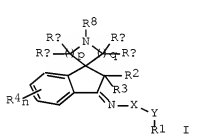
AB Title compds. I [W = (R4)n; n = 0-3; X = (CRa2)p; Z = (CRa2)q; Ra = H, halo, OH, etc.; p = 0-6; q = 0-6; Y = single bond, CO, CS, etc.; R1 = H, alkyl, alkoxycarbonyl, etc.; R2, R3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; R8 = alkyl, alkenyl, alkynyl, etc.; T = 5- or 6-membered heteroarom. ring] and N-oxides were prepared For example, N-alkylation of piperidine II with 4-chlorocinnamyl chloride afforded spiropiperidine III in 58% yield. In diamondback moth protection assays, 72-examples of compds. I at 18.2 ppm exhibited at least 80% protection after 5-days.
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 22 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:570877 HCAPLUS Full-text
DOCUMENT NUMBER: 143:77964
TITLE: Preparation of insecticidal spiroindane derivatives
INVENTOR(S): Cassayre, Jerome; Molleyres, Louis-Pierre; Maienfisch, Peter; Cederbaum, Fredrik
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 114 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058836	A1	20050630	WO 2004-IB4108	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1697327	A1	20060906	EP 2004-806338	20041209
EP 1697327	B1	20110713		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				

BR 2004017555	A	20070327	BR 2004-17555		20041209
JP 2007516253	T	20070621	JP 2006-543659		20041209
AT 516273	T	20110715	AT 2004-806338		20041209
IN 2006CN02077	A	20070706	IN 2006-CN2077		20060612
US 20080306101	A1	20081211	US 2008-581177		20080828
PRIORITY APPLN. INFO.:			GB 2003-28906	A	20031212
			WO 2004-IB4108	W	20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 143:77964; MARPAT 143:77964
GI



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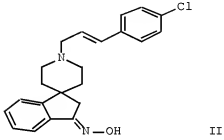

II

AB Title compds. I [X = O, amino; Y = bond, CO, CS, SO0-2; R1 = H, alkyl, alkoxycarbonyl, etc.; R2-3 = H, halo, CN, alkyl, etc.; R4 = halo, NO2, CN, etc.; Ra = H, halo, OH, CN, etc.; p, q = 0-6; R8 = alk(en/yn)yl, etc.] are prepared For instance, II is prepared in 3 steps from spiro[indan-1-one-3,4'-piperidine]-1'-carboxylic acid tert Bu ester, 4-chlorocinnamyl chloride and hydroxylamine (E (dominant) and Z oximes isolated). Selected example compds. gave >80% control of Spodoptera littoralis. I are useful in controlling insects, acarines, nematodes or molluscs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 23 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:567094 HCAPLUS Full-text
DOCUMENT NUMBER: 143:73282
TITLE: Preparation of (3-(1-(3-phenylpropenyl)piperidin-4-yl)-2,3-dihydroindol-1-yl)-(pyridin-4-yl)methanone derivatives as insecticides, acaricides and nematocides
INVENTOR(S): Cassayre, Jerome; Maienfisch, Peter; Molleyres, Louis-Pierre; Cederbaum, Fredrik
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 155 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2005058035	A1	20050630	WO 2004-IB4170	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AR 48209	A1	20060412	AR 2004-104594	20041209
EP 1732385	A1	20061220	EP 2004-806368	20041209
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
BR 2004017574	A	20070320	BR 2004-17574	20041209
JP 2007528873	T	20071018	JP 2006-543661	20041209
IN 2006CN02078	A	20070706	IN 2006-CN2078	20060612
US 20070225269	A1	20070927	US 2007-581173	20070123
PRIORITY APPLN. INFO.:			GB 2003-28909 A	20031212
			WO 2004-IB4170 W	20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:73282; MARPAT 143:73282

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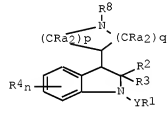


I

AB The title compds. I [Y = single bond, C:O, C:S or S(O)m; m = 0, 1 or 2; R1 = H, (un)substituted alkyl, alkoxycarbonyl, etc.; R2 , R3 = H, halo, CN, (un)substituted alkyl or aryl; R4 = halo, NO2, CN, (un)substituted alkyl, alkenyl, etc.; R8 = (un)substituted alkyl, alkenyl, alkynyl, etc.; Ra = H, halo, OH, CN, (un)substituted alkyl, alkenyl, or alkynyl, etc.; p,q = 0, 1-6] and I salts or N-oxides are prepared as insecticides, acaricides and nematocides.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 24 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

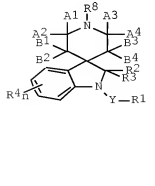
ACCESSION NUMBER:	2005:564667 HCAPLUS Full-text
DOCUMENT NUMBER:	143:78078
TITLE:	Preparation of spiroindoline derivatives having insecticidal properties
INVENTOR(S):	Cassayre, Jerome; Molleyres, Louis-Pierre; Maienfisch, Peter; Cederbaum, Fredrik

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 176 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058897	A1	20050630	WO 2004-IB4114	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1694676	A1	20060830	EP 2004-806344	20041209
EP 1694676	B1	20090826		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
BR 2004017545	A	20070327	BR 2004-17545	20041209
JP 2007516254	T	20070621	JP 2006-543660	20041209
AT 440845	T	20090915	AT 2004-806344	20041209
ES 2332723	T3	20100211	ES 2004-806344	20041209
IN 2006CN02089	A	20070706	IN 2006-CN2089	20060612
US 20090042921	A1	20090212	US 2008-581175	20081007

PRIORITY APPLN. INFO.: GB 2003-28908 A 20031212
WO 2004-IB4114 W 20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 143:78078; MARPAT 143:78078
GI



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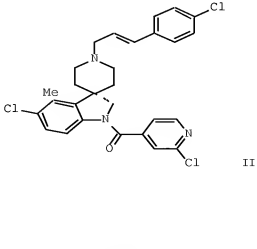

II

AB Title compds. I [Y = bond, CO, CS, etc.; R2-3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; A1-4, B1-4 = H, halo, OH, CN, etc.; n = 0-4] are prepared For instance, II is prepared in 3 steps from 3-methylpiperidin-4-one, 4-chlorocinnamyl chloride, 4-chlorophenylhydrazine•HCl and 2-chloroisonicotinoyl chloride. Example compds. gave at least 80% control of Plutella xylostella. I are useful in controlling insects, acarines, nematodes or molluscs.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 25 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:216832 HCAPLUS Full-text

DOCUMENT NUMBER: 142:275493

TITLE: Preparation of avermectins and avermectin monosaccharides, substituted in the 4'- and 4" position, as insecticides and acaricides

INVENTOR(S): Murphy Kessabi, Fiona; Pitterna, Thomas; Maienfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre; Hueter, Ottmar Franz

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 85 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005021569	A1	20050310	WO 2004-EP9594	20040827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1660510	A1	20060531	EP 2004-764568	20040827
EP 1660510	B1	20080402		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2007504113	T	20070301	JP 2006-524341	20040827
AT 391133	T	20080415	AT 2004-764568	20040827
PT 1660510	E	20080620	PT 2004-764568	20040827
ES 2307042	T3	20081116	ES 2004-764568	20040827
US 20080194498	A1	20080814	US 2006-568715	20060217
US 7704961	B2	20100427		

PRIORITY APPLN. INFO.: GB 2003-20176 A 20030828
WO 2004-EP9594 W 20040827

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 142:275493; MARPAT 142:275493

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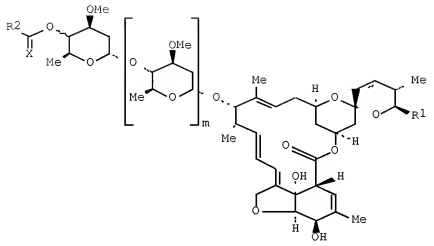

I

AB The title compds. I wherein the bond between carbon atoms 22 and 23 is a single or double bond; m is 0 or 1; R1, is C1-C12alkyl, C3-C8cycloalkyl or C2-C12alkenyl; and either (A) R2 is NR3R4, and (1) X is O, wherein R3 is, for instance, H, unsubstituted or mono- to pentasubstituted C1-C12 alkyl, and R4 is, for instance, mono- to pentasubstituted C1-C12 alkyl, unsubstituted or mono- to pentasubstituted C3-C12 cycloalkyl; or (2) X is S, wherein R3 is, for instance, H, unsubstituted or mono- to pentasubstituted C1-C12 alkyl, and R4 is, for instance, H, unsubstituted or mono- to pentasubstituted C1-C12 alkyl; or (3) X is O or S, wherein R3 and R4 together are, for instance, a three- to seven membered alkylene or a four- to seven-membered alkenylene bridge; or (B) R2 is OR5, X is O or S, wherein R5 is, for instance, C1-C12 alkyl, mono- to pentasubstituted C1-C12 alkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in free form or in salt form, are prepared as insecticides and acaricides.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 26 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156793 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431581

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-XF900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-EP900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2310 A	20030131
			WO 2004-EP900	20040130

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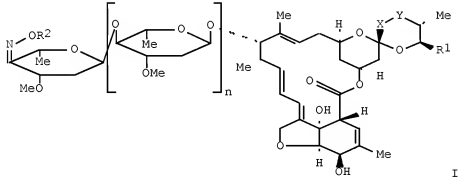

I

AB The title compds. I [XY = CH:CH or CH2CH2; Z = C(O), C(S) or SO2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 = R3Z, R3OZ, R4 or ZNR6R7; Q = O or NR5; R3, R4 = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl or heterocyclyl; R5 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl, C2-C8 alkenyl, C2-C8 alkynyl, Ph or benzyl; R6,R7 = H, (un)substituted C1-C12 alkyl, C2-C12 alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 27 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156792 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431580
TITLE: Preparation of avermectin and avermectin

	monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides
INVENTOR(S):	Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S):	Syngenta Participations AG, Switz.
SOURCE:	PCT Int. Appl., 104 pp.
	CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	8
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-XE900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-EP900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2310 A	20030131
			WO 2004-EP900	20040130

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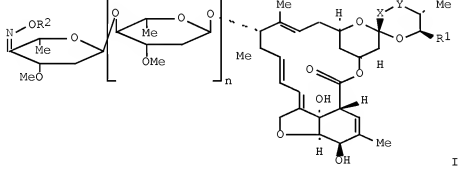


I

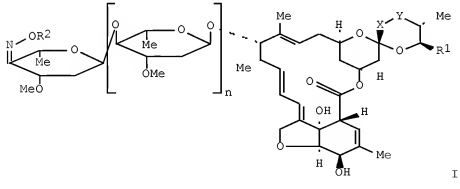
AB The title compds. I [XY = CH:CH or CH2CH2; Z = C(O), C(S) or SO2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 = R3Z, R3OZ, R4 or ZNR6R7; Q = O or NR5; R3, R4 = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl or heterocyclyl; R5 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl, C2-C8 alkenyl, C2-C8 alkynyl, Ph or benzyl; R6,R7 = H, (un)substituted C1-C12 alkyl, C2-C12 alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document

necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 28 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156791 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431579
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-XD900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-EP900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2310	A 20030131
			WO 2004-EP900	20040130

GI



I

AB The title compds. I [XY = CH:CH or CH2CH2; Z = C(O), C(S) or SO2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 = R3Z, R3OZ, R4 or ZNR6R7; Q = O or NR5; R3, R4 = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl or heterocyclyl; R5 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl, C2-C8 alkenyl, C2-C8 alkynyl, Ph or benzyl; R6,R7 = H, (un)substituted C1-C12 alkyl, C2-C12 alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 29 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156790 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431578
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-XC900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-EP900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				

PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
WO 2004-EP900 20040130

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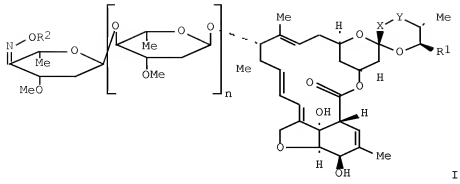

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L32 ANSWER 30 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156789 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431577
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-XB900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-EP900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI

PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
WO 2004-EP900 20040130

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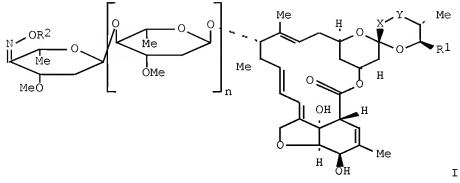

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AB The title compds. I [XY = CH:CH or CH2CH2; Z = C(O), C(S) or SO2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 = R3Z, R3OZ, R4 or ZNR6R7; Q = O or NR5; R3, R4 = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl or heterocyclyl; R5 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl, C2-C8 alkenyl, C2-C8 alkynyl, Ph or benzyl; R6,R7 = H, (un)substituted C1-C12 alkyl, C2-C12 alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 31 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156788 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431576
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-XA900	20040130

WO 2004066725 A3 20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
WO 2004066725 A2 20040812 WO 2004-EP900 20040130
WO 2004066725 A3 20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
WO 2004-EP900 20040130

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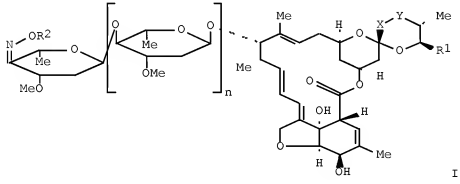

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AB The title compds. I [XY = CH:CH or CH2CH2; Z = C(O), C(S) or SO2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 = R3Z, R3OZ, R4 or ZNR6R7; Q = O or NR5; R3, R4 = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl or heterocyclyl; R5 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl, C2-C8 alkenyl, C2-C8 alkynyl, Ph or benzyl; R6,R7 = H, (un)substituted C1-C12 alkyl, C2-C12 alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 32 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156787 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431575
TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067534	A1	20040812	WO 2004-XE899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-EP899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2309	A 20030131
			WO 2004-EP899	20040130

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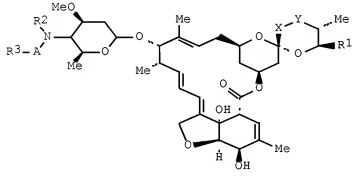

I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO2, OSO2, NRSO2, bond; X-Y is CH:CH, CH2CH2; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was prepared and tested as a pesticide against Spodoptera littoralis, Heliothis virescens, Plutella xylostella caterpillars, Diabrotica balteata, and Tetranychus urticae. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 33 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156786 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431574
TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties

INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067534	A1	20040812	WO 2004-XD899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-EP899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				

PRIORITY APPLN. INFO.: GB 2003-2309 A 20030131
WO 2004-EP899 20040130

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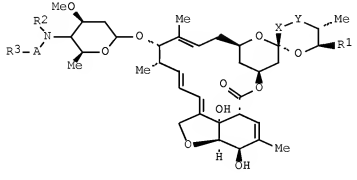

I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO2, OSO2, NRSO2, bond; X-Y is CH:CH, CH2CH2; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was prepared and tested as a pesticide against Spodoptera littoralis, Heliothis virescens, Plutella xylostella caterpillars, Diabrotica balteata, and Tetranychus urticae. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 34 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156785 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431573
TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067534	A1	20040812	WO 2004-XC899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-EP899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2309	A 20030131
			WO 2004-EP899	20040130

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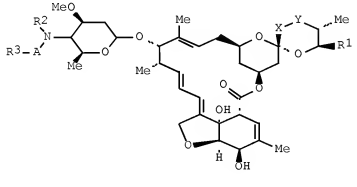

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AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO2, OSO2, NRSO2, bond; X-Y is CH:CH, CH2CH2; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was

prepared and tested as a pesticide against Spodoptera littoralis, Heliothis virescens, Plutella xylostella caterpillars, Diabrotica balteata, and Tetranychus urticae. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 35 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156784 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431572
TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067534	A1	20040812	WO 2004-XB899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-EP899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				

PRIORITY APPLN. INFO.: GB 2003-2309 A 20030131
WO 2004-EP899 20040130

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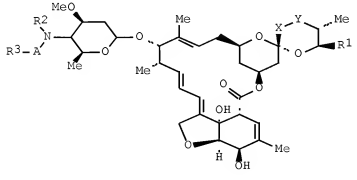

I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO2, OSO2, NRSO2, bond; X-Y is CH:CH, CH2CH2; R is H, alkyl,

hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was prepared and tested as a pesticide against Spodoptera littoralis, Heliothis virescens, Plutella xylostella caterpillars, Diabrotica balteata, and Tetranychus urticae. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 36 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156783 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431571
TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067534	A1	20040812	WO 2004-XA899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-EP899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2309	A 20030131
			WO 2004-EP899	20040130

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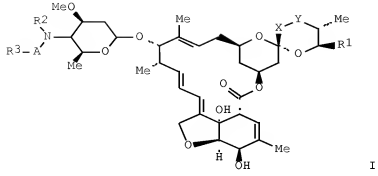

I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO2, OSO2, NRSO2, bond; X-Y is CH:CH, CH2CH2; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was prepared and tested as a pesticide against Spodoptera littoralis, Heliothis virescens, Plutella xylostella caterpillars, Diabrotica balteata, and Tetranychus urticae. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 37 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156782 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431570
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives, substituted in the 4''- or 4'-position, as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maienfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067543	A1	20040812	WO 2004-XC890	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067543	A1	20040812	WO 2004-EP890	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI

PRIORITY APPLN. INFO.: GB 2003-2308 A 20030131
WO 2004-EP890 20040130

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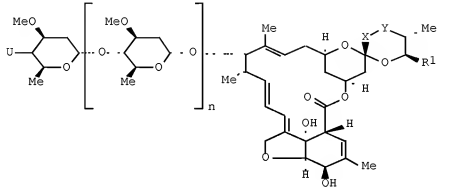

I

AB The title compds. I [U = N(R2)OR3 or N+(O-):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH2CH2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R3 = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR4; Q = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R4 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl or C2-C8 alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 38 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156781 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431569
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives, substituted in the 4''- or 4'-position, as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maienfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2004067543 A1 20040812 WO 2004-XB890 20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
WO 2004067543 A1 20040812 WO 2004-EP890 20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
PRIORITY APPLN. INFO.: GB 2003-2308 A 20030131
WO 2004-EP890 20040130

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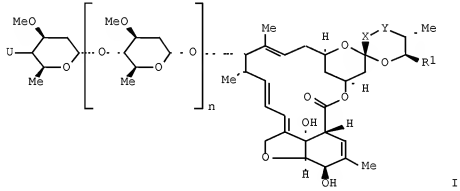

I

AB The title compds. I [U = N(R2)OR3 or N+(O-):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH2CH2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R3 = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR4; Q = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R4 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl or C2-C8 alkenyl; or, if appropriate, a E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 39 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156780 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431568
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives, substituted in the 4''- or 4'-position, as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maienfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067543	A1	20040812	WO 2004-XA890	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067543	A1	20040812	WO 2004-EP890	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
PRIORITY APPLN. INFO.:			GB 2003-2308 A	20030131
			WO 2004-EP890	20040130

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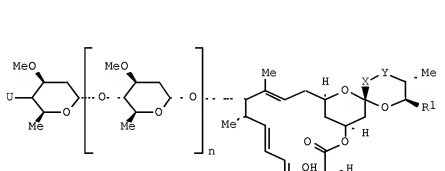

I

AB The title compds. I [U = N(R2)OR3 or N+(O-):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH2CH2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R3 = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR4; Q = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R4 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl or C2-C8 alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 40 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156764 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431565
TITLE: Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides
INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069852	A1	20040819	WO 2004-XB972	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2004069852	A1	20040819	WO 2004-EP972	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: GB 2003-2548 A 20030204
WO 2004-EP972 20040203

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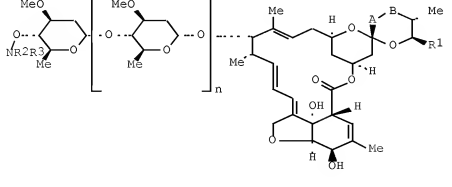

I

AB The title compds. I wherein AB is CH:CH or CH2CH2; n is 0 or 1; R1, is C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 and R4 are C(:Y)Q, or C(:Y)OQ; R2NR3 are a three- to seven-membered ring; R3R4 are C(R4)R5, where R4 and R5 are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C1-C12 alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 41 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156763 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431564
TITLE: Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides
INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069852	A1	20040819	WO 2004-XA972	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
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WO 2004069852	A1	20040819	WO 2004-EP972	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: GB 2003-2548 A 20030204
WO 2004-EP972 20040203

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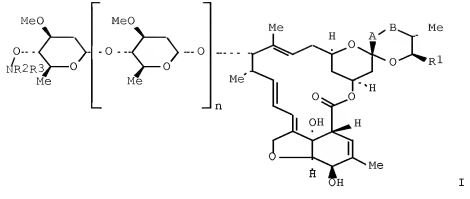

I

AB The title compds. I wherein AB is CH:CH or CH2CH2; n is 0 or 1; R1, is C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 and R4 are C(:Y)Q, or C(:Y)OQ; R2NR3 are a three- to seven-membered ring; R3R4 are C(R4)R5, where R4 and R5 are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C1-C12 alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 42 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156762 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431563
TITLE: Preparation of avermectin B1 and avermectin B1 monosaccharide derivatives having an alkoxymethyl substituent in the 4"- or 4'-position as pesticides
INVENTOR(S): Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Pitterna, Thomas; Hueter, Ottmar Franz; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056844	A1	20040708	WO 2003-XA14613	20031219

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
WO 2004056844 A1 20040708 WO 2003-EP14613 20031219
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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
JP 2011102303 A 20110526 JP 2010-286151 20101222
PRIORITY APPLN. INFO.: GB 2002-29804 A 20021220
WO 2003-EP14613 20031219
JP 2004-561378 A3 20031219

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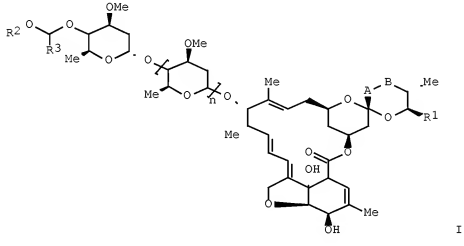

I

AB Avermectin B1 and avermectin B1 monosaccharide derivs. I, wherein n is 0-1; A-B is CH=CH, CH2-CH2; R1 is alkyl, cycloalkyl, alkenyl; R2 is substituted alkyl, alkenyl, alkynyl, cycloalkenyl; halocycloalkyl, alkoxy, alkoxyalkoxy, cycloalkoxy, haloalkoxy, alkylthio, cycloalkylthio, haloalkylthio, alkylsulfinyl, cycloalkylsulfinyl, haloalkylsulfinyl, halocycloalkylsulfinyl, alkylsulfonyl, cycloalkylsulfonyl, haloalkylsulfonyl, halocycloalkylsulfonyl, aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy; R3 is alkyl, alkyl which is optionally substituted and, where applicable, to E/Z isomers, mixts. of E/Z isomers and/or tautomers, in each case in free form or in salt form; a process for preparing and using these compds. and their tautomers; pesticides whose active compound is selected from these compds. and their tautomers; and a process for preparing these compds. and compns., and the use of these compds. and compns. In the area of pest control, compds. I are active ingredients exhibiting valuable preventive and/or curative activity with a very

advantageous biocidal spectrum and a very broad spectrum, even at low rates of concentration, while being well tolerated by warm-blooded animals, fish and plants (no data). They are, surprisingly, equally suitable for controlling both plant pests and ecto- and endo-parasites in humans and more especially in productive livestock, domestic animals and pets (no data). They are effective against all or individual development stages of normally sensitive animal pests, but also of resistant animal pests, such as insects and representatives of the order Acarina, nematodes, cestodes and trematodes, while at the same time protecting useful organisms (no data). The insecticidal or acaricidal activity of the active ingredients according to the invention may manifest itself directly, i.e. in the mortality of the pests, which occurs immediately or only after some time, for example during molting, or indirectly, for example in reduced oviposition and/or hatching rate, good activity corresponding to a mortality of at least 50 to 60 % (no data). Thus, I (n = 1, A-B is CH=CH, R2 is Bn, R3 is H) was prepared as pesticide. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 43 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:796496 HCAPLUS Full-text

DOCUMENT NUMBER: 141:290547

TITLE: Fungicidal compositions comprising N-phenyl-N-[4-(4-pyridyl)-2-pyrimidin-2-yl]amine derivatives

INVENTOR(S): Ackerman, Peter; Stierli, Daniel; Jung, Pierre Marcel Joseph; Maienfisch, Peter; Cederbaum, Fredrik Emil Malcolm; Wenger, Jean-Frederic

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: Brit. UK Pat. Appl., 112 pp.
CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
GB 2399754	A	20040929	GB 2004-3967		20040223
PRIORITY APPLN. INFO.:			GB 2003-7269	A	20030328

OTHER SOURCE(S): MARPAT 141:290547

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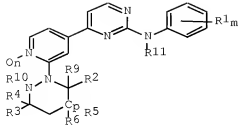


I

AB Compns. for protecting plants, especially fungicidal compns., comprise N-phenyl-N-[4-(4-pyridyl)-2-pyrimidin-2-yl]amine derivs. (I, R1 = halo or (un)substituted alkyl, alkoxy, alkenyloxy, alkynyloxy, thioalkyl, aryl, etc.; R2-R9 = H, (un)substituted alkyl, aryl, etc.; R10 = H, (un)substituted alkyl, alkenyl, etc.; R11 = H, C1-4 alkyl, C3-4 alkenyl, etc.; m = 0, 1, 2, or 3; n, p = 0 or 1; q = 1 or 2) or a salt thereof, together with a suitable carrier and optionally addnl. active compds. Thus, spraying 1-wk-old wheat plants 0.02% I (in a test with 7 such compds.) resulted in >70% control of fungal infection assessed 10 days after inoculation with Puccinia graminis.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 44 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:681636 HCAPLUS Full-text

DOCUMENT NUMBER: 141:186452

TITLE: Preparation of avermectins and avermectin monosaccharides substituted in the 4'- and 4"-position as insecticides and acaricides

INVENTOR(S): Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Pitterna, Thomas; Maienfisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 100 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

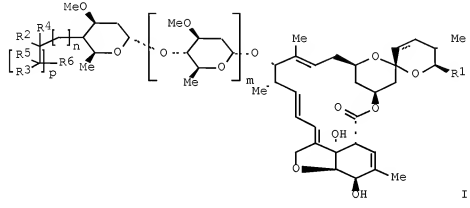
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069853	A1	20040819	WO 2004-EP977	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1592701	A1	20051109	EP 2004-707507	20040203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006517554	T	20060727	JP 2006-501719		20040203
US 20060094600	A1	20060504	US 2005-544281		20050803
PRIORITY APPLN. INFO.:			GB 2003-2547	A	20030204
			WO 2004-EP977	W	20040203

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:186452
GI



I

AB The title compds. I, wherein the bond of atoms C22 and C23 is a single or double bond; m is 0 or 1; n is 0, 1 or 2; p is 0 or 1; R1 is C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R4 is H, C1-C12 alkyl, C1-C12 haloalkyl or C1-C12 hydroxyalkyl; or together with R4 form with the carbon to which they are bound a three- to seven-membered ring; R3 is H, C1-C12 alkyl, halogen, C1-C2 haloalkyl, CN, NO2 or C3-C8 cycloalkyl; R5, R6 is H, C1-C12 alkyl, CN, NO2, OH, SH, halogen, C1-C2 haloalkyl or C3-C8 cycloalkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as acaricides and insecticides.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 45 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:681635 HCAPLUS Full-text
DOCUMENT NUMBER: 141:186451
TITLE: Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides
INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069852	A1	20040819	WO 2004-EP972	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
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WO 2004069852	A1	20040819	WO 2004-XA972	20040203
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WO 2004069852	A1	20040819	WO 2004-XB972	20040203
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EP 1613639	A1	20060111	EP 2004-707515	20040203
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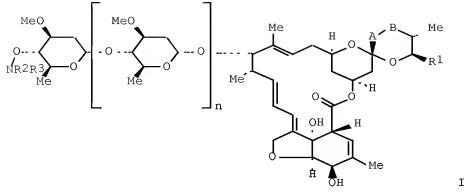
JP 2006516590	T	20060706	JP 2006-501717	20040203
AT 483721	T	20101015	AT 2004-707515	20040203
ES 2349531	T3	20110104	ES 2004-707515	20040203
US 20060154879	A1	20060713	US 2005-544274	20050803
US 7378399	B2	20080527		
PRIORITY APPLN. INFO.:			GB 2003-2548 A	20030204
			WO 2004-EP972	20040203

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:186451
GI



I

AB The title compds. I wherein AB is CH:CH or CH2CH2; n is 0 or 1; R1, is C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 and R4 are C(:Y)Q, or C(:Y)OQ; R2NR3 are a three- to seven-membered ring; R3R4 are C(R4)R5, where R4 and R5 are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C1-C12 alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 46 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:648536 HCAPLUS Full-text
DOCUMENT NUMBER: 141:169385
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives, substituted in the 4'''- or 4'-position, as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maienfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067543	A1	20040812	WO 2004-EP890	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067543	A1	20040812	WO 2004-XA890	20040130
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WO 2004067543	A1	20040812	WO 2004-XB890		20040130
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WO 2004067543	A1	20040812	WO 2004-XC890		20040130
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EP 1592699	A1	20051109	EP 2004-706638		20040130
EP 1592699	B1	20061227			
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JP 2006516584	T	20060706	JP 2006-501687		20040130
AT 349457	T	20070115	AT 2004-706638		20040130
PT 1592699	E	20070430	PT 2004-706638		20040130
ES 2280022	T3	20070901	ES 2004-706638		20040130
US 20060140997	A1	20060629	US 2005-543637		20050728
US 7678740	B2	20100316			

PRIORITY APPLN. INFO.: GB 2003-2308 A 20030131
WO 2004-EP890 20040130

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 141:169385

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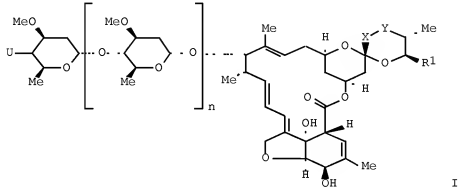

I

AB The title compds. I [U = N(R2)OR3 or N+(O-):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH2CH2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R3 = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR4; Q = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R4 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl or C2-C8 alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for

this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 47 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:648527 HCAPLUS Full-text

DOCUMENT NUMBER: 141:174408

TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties

INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067534	A1	20040812	WO 2004-EP899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
AU 2004207073	A1	20040812	AU 2004-207073	20040130
AU 2004207073	B2	20100916		
CA 2513573	A1	20040812	CA 2004-2513573	20040130
WO 2004067534	A1	20040812	WO 2004-XA899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-XB899	20040130
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WO 2004067534	A1	20040812	WO 2004-XC899	20040130
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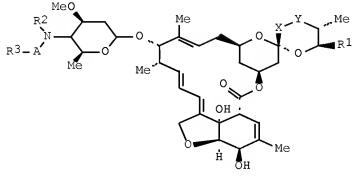
WO 2004067534	A1	20040812	WO 2004-XD899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004067534	A1	20040812	WO 2004-XE899	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				

EP 1594878	A1	20051116	EP 2004-706630		20040130
EP 1594878	B1	20080604			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
BR 2004006875	A	20060103	BR 2004-6875		20040130
CN 1751049	A	20060322	CN 2004-80004369		20040130
CN 100410259	C	20080813			
JP 2006518347	T	20060810	JP 2006-501692		20040130
NZ 541252	A	20080530	NZ 2004-541252		20040130
AT 397610	T	20080615	AT 2004-706630		20040130
RU 2329268	C2	20080720	RU 2005-127321		20040130
PT 1594878	E	20080910	PT 2004-706630		20040130
ES 2308140	T3	20081201	ES 2004-706630		20040130
IL 169598	A	20100517	IL 2004-169598		20040130
IN 2005DN03034	A	20070525	IN 2005-DN3034		20050707
ZA 2005005545	A	20060426	ZA 2005-5545		20050708
MX 2005007923	A	20050930	MX 2005-7923		20050726
US 20060205595	A1	20060914	US 2006-543643		20060405
PRIORITY APPLN. INFO.:			GB 2003-2309	A	20030131
			WO 2004-EP899	W	20040130

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:174408
GI



I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO2, OSO2, NRSO2, bond; X-Y is CH:CH, CH2CH2; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was prepared and tested as a pesticide against Spodoptera littoralis, Heliothis virescens, Plutella xylostella caterpillars, Diabrotica balteata, and Tetranychus urticae. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 48 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:648287 HCAPLUS Full-text
DOCUMENT NUMBER: 141:169382
TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004066725	A2	20040812	WO 2004-EP900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-XA900	20040130
WO 2004066725	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
WO 2004066725	A2	20040812	WO 2004-XB900	20040130
WO 2004066725	A3	20041118		
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WO 2004066725	A2	20040812	WO 2004-XC900	20040130
WO 2004066725	A3	20041118		
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WO 2004066725	A2	20040812	WO 2004-XD900	20040130
WO 2004066725	A3	20041118		
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WO 2004066725	A2	20040812	WO 2004-XE900	20040130
WO 2004066725	A3	20041118		
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WO 2004066725	A2	20040812	WO 2004-XF900	20040130

WO 2004066725 A3 20041118
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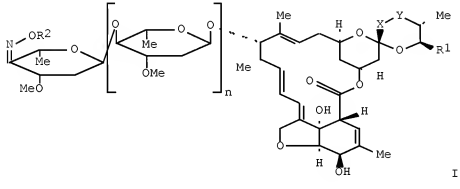
EP 1592700 A2 20051109 EP 2004-706681 20040130
EP 1592700 B1 20080402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
JP 2006516585 T 20060706 JP 2006-501693 20040130
AT 391132 T 20080415 AT 2004-706681 20040130
PT 1592700 E 20080620 PT 2004-706681 20040130
ES 2306982 T3 20081116 ES 2004-706681 20040130
US 20060166824 A1 20060727 US 2005-543638 20050728
US 7632820 B2 20091215
PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
WO 2004-EP900 20040130
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:169382
GI



I

AB The title compds. I [XY = CH:CH or CH2CH2; Z = C(O), C(S) or SO2; R1 = C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2 = R3Z, R3OZ, R4 or ZNR6R7; Q = O or NR5; R3, R4 = H, C1-C12 alkyl, C2-C12 alkenyl, C2-C12 alkynyl, C3-C12 cycloalkyl, C5-C12 cycloalkenyl, aryl or heterocyclyl; R5 = H, C1-C8 alkyl, hydroxyalkyl, C3-C8 cycloalkyl, C2-C8 alkenyl, C2-C8 alkynyl, Ph or benzyl; R6,R7 = H, (un)substituted C1-C12 alkyl, C2-C12 alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 49 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:546518 HCAPLUS Full-text

DOCUMENT NUMBER: 141:89321
TITLE: Preparation of avermectin B1 and avermectin B1 monosaccharide derivatives having an alkoxymethyl substituent in the 4"- or 4'-position as pesticides
INVENTOR(S): Maienfisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Pitterna, Thomas; Hueter, Ottmar Franz; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056844	A1	20040708	WO 2003-EP14613	20031219
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2507774	A1	20040708	CA 2003-2507774	20031219
CA 2507774	C	20110614		
WO 2004056844	A1	20040708	WO 2003-XA14613	20031219
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU 2003302284	A1	20040714	AU 2003-302284	20031219
AU 2003302284	B2	20090723		
EP 1581546	A1	20051005	EP 2003-810843	20031219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003017601	A	20051129	BR 2003-17601	20031219
CN 1738828	A	20060222	CN 2003-80108857	20031219
JP 2006515849	T	20060608	JP 2004-561378	20031219
RU 2330857	C2	20080810	RU 2005-122943	20031219
IL 169092	A	20101230	IL 2003-169092	20031219
IN 2005DN02316	A	20070302	IN 2005-DN2316	20050601
IN 222215	A1	20080815		
MX 2005006036	A	20050818	MX 2005-6036	20050606
ZA 2005004353	A	20060329	ZA 2005-4353	20060106
US 20060148729	A1	20060706	US 2006-539274	20060309
US 7737261	B2	20100615		

US 20100210574	A1	20100819	US 2010-768280		20100427
JP 2011102303	A	20110526	JP 2010-286151		20101222
PRIORITY APPLN. INFO.:			GB 2002-29804	A	20021220
			JP 2004-561378	A3	20031219
			WO 2003-EP14613	W	20031219
			US 2006-539274	A1	20060309

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:89321

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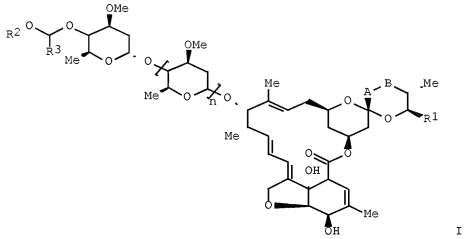

I

AB Avermectin B1 and avermectin B1 monosaccharide derivs. I, wherein n is 0-1; A-B is CH=CH, CH2-CH2; R1 is alkyl, cycloalkyl, alkenyl; R2 is substituted alkyl, alkenyl, alkynyl, cycloalkenyl; halocycloalkyl, alkoxy, alkoxyalkoxy, cycloalkoxy, haloalkoxy, alkylthio, cycloalkylthio, haloalkylthio, alkylsulfinyl, cycloalkylsulfinyl, haloalkylsulfinyl, halocycloalkylsulfinyl, alkylsulfonyl, cycloalkylsulfonyl, haloalkylsulfonyl, halocycloalkylsulfonyl, aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy; R3 is alkyl, alkyl which is optionally substituted and, where applicable, to E/Z isomers, mixts. of E/Z isomers and/or tautomers, in each case in free form or in salt form; a process for preparing and using these compds. and their tautomers; pesticides whose active compound is selected from these compds. and their tautomers; and a process for preparing these compds. and compns., and the use of these compds. and compns. In the area of pest control, compds. I are active ingredients exhibiting valuable preventive and/or curative activity with a very advantageous biocidal spectrum and a very broad spectrum, even at low rates of concentration, while being well tolerated by warm-blooded animals, fish and plants (no data). They are, surprisingly, equally suitable for controlling both plant pests and ecto- and endo-parasites in humans and more especially in productive livestock, domestic animals and pets (no data). They are effective against all or individual development stages of normally sensitive animal pests, but also of resistant animal pests, such as insects and representatives of the order Acarina, nematodes, cestodes and trematodes, while at the same time protecting useful organisms (no data).

The insecticidal or acaricidal activity of the active ingredients according to the invention may manifest itself directly, i.e. in the mortality of the pests, which occurs immediately or only after some time, for example during molting, or indirectly, for example in reduced oviposition and/or hatching rate, good activity corresponding to a mortality of at least 50 to 60 % (no data). Thus, I (n = 1, A-B is CH=CH, R2 is Bn, R3 is H) was prepared as pesticide. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 50 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2003:1006983 HCAPLUS Full-text

DOCUMENT NUMBER: 140:59528

TITLE: Preparation of spiroindolinepiperidines as insecticides, acaricides, nematicides, and molluscicides

INVENTOR(S): Hughes, David John; Worthington, Paul Anthony; Russell, Charles Adam; Clarke, Eric Daniel; Peace, James Edward; Ashton, Mark Richard; Coulter, Thomas Stephen; Roberts, Richard Spurring; Molleyres, Louis-Pierre; Cederbaum, Fredrik; Cassayre, Jerome; Maienfisch, Peter

PATENT ASSIGNEE(S): Syngenta Limited, UK; Syngenta Participations A.-G.

SOURCE: PCT Int. Appl., 144 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003106457	A1	20031224	WO 2003-GB2424	20030604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2487494	A1	20031224	CA 2003-2487494	20030604
CA 2487494	C	20110719		
AU 2003240071	A1	20031231	AU 2003-240071	20030604
AU 2003240071	B2	20090910		
EP 1515969	A1	20050323	EP 2003-732685	20030604
EP 1515969	B1	20100825		
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BR 2003012129	A	20050329	BR 2003-12129	20030604
CN 1662535	A	20050831	CN 2003-813854	20030604

JP 2006501170	T	20060112	JP 2004-513289		20030604
NZ 536734	A	20060331	NZ 2003-536734		20030604
CN 1944431	A	20070411	CN 2006-10131898		20030604
EP 1880996	A1	20080123	EP 2007-19400		20030604
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AP 1850	A	20080630	AP 2005-3198		20030604
CN 101318958	A	20081210	CN 2008-10135870		20030604
CN 101318958	B	20110615			
CN 101574084	A	20091111	CN 2009-10134582		20030604
AT 478870	T	20100915	AT 2003-732685		20030604
PT 1515969	E	20101129	PT 2003-732685		20030604
ES 2351188	T3	20110201	ES 2003-732685		20030604
KR 1013428	B1	20110214	KR 2004-7020364		20030604
IN 2004DN03738	A	20091204	IN 2004-DN3738		20041125
MX 2004012349	A	20050225	MX 2004-12349		20041208
ZA 2004010058	A	20050905	ZA 2004-10058		20041213
US 20060106045	A1	20060518	US 2005-517957		20050811
PRIORITY APPLN. INFO.:			GB 2002-13715	A	20020614
			CN 2003-813854	A3	20030604
			EP 2003-732685	A3	20030604
			WO 2003-GB2424	W	20030604

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 140:59528
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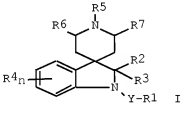

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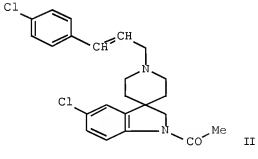


II

AB Insecticidal, acaricidal, nematicidal or molluscicidal spiroindolinepiperidines I [Y = bond, CO, CS, S, S(O), SO2; R1 = H, (un)substituted alkyl, CO2H, acyl, CONH2, aryl, heteroaryl,OH, CN, alkenyl, alkynyl,cycloalkyl, heterocyclyl, SH, NH2; R2, R3 = H, halogen, CN, (un)substituted alkyl, alkoxy, aryl, CONH2; R2R3 = O, alkylene, heteroalkylene; R4 = halogen, NO2, CN, (un)substituted alkyl, alkenyl,

alkynyl, CO2H, acyl, CONH2, cycloalkyl, heteroaryl, heterocyclyl, alkoxy, aryloxy, heteroaryloxy, alkylthio, NH2; R42 = atoms required to complete a carbocyclic or heterocyclic ring; n = 0-4; R5 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, alkoxy, aryloxy, CO2H, acyl; R6, R7 = H, halogen, (un)substituted alkyl, aryl; R6R7 = CH2, CH:CH, CH2CH2] were prepared Although the methods of preparation are not claimed, 18 example prepns. and characterization data for .apprx.250 examples of I are included. Thus, 1-tert-butoxycarbonyl-4-piperidinone was treated with [MeOCH2PPh3]Cl to give 1-tert.-butoxycarbonyl-4-methoxymethylenepiperidine which was cyclized with 4-ClC6H4NHNH2, N-acetylated, deblocked, and alkylated with 4-ClC6H4CH:CHCH2Cl to give I [YR1 = Ac, R2, R3, R6, R7 = H, R4 = 5-Cl, R5 = 4-ClC6H4CH:CHCH2], which gave >80% inhibition of Spodoptera littoralis on cotton at 200 ppm.

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 51 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2003:454037 HCAPLUS Full-text

DOCUMENT NUMBER: 139:32086

TITLE: Preparation of fungicidal N-phenyl-N-[4-(4-pyridyl)-2-pyrimidin-2-yl]amine derivatives

INVENTOR(S): Ackermann, Peter; Stierli, Daniel; Jung, Pierre Marcel Joseph; Maienfisch, Peter; Cederbaum, Fredrik Emil Malcolm; Wenger, Jean-Frederic

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

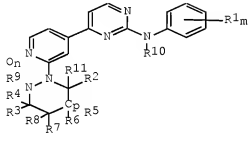
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003047347	A1	20030612	WO 2002-IB5148	20021205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2460180	A1	20030612	CA 2002-2460180	20021205
CA 2460180	C	20110125		
AU 2002351125	A1	20030617	AU 2002-351125	20021205
BR 2002013176	A	20040914	BR 2002-13176	20021205
EP 1471786	A1	20041103	EP 2002-785838	20021205
EP 1471786	B1	20061227		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
AT 349162	T	20070115	AT 2002-785838	20021205

ES 2274113	T3	20070516	ES 2002-785838		20021205
US 20050085496	A1	20050421	US 2004-497974		20040603
US 7205301	B2	20070417			
PRIORITY APPLN. INFO.:			GB 2001-29391	A	20011207
			WO 2002-IB5148	W	20021205

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 139:32086
GI



I

AB The title compds. I [m = 0, 1, 2 or 3 ; n, p = 0 or 1; R1 = halo, (un)substituted alkyl, alkoxy, alkenyloxy, alkynyloxy, thioalkylor aryl, COOH, alkoxycarbonyl, CONH2, etc.; R2-8,R11= = H, (un)substituted alkyl, alkylthio, aryl, etc.; R9 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R10 = H, alkyl, alkenyl, alkynyl, CH2OH, CH2SH, etc.] are prepared as fungicides.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 52 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1996:546334 HCAPLUS Full-text
DOCUMENT NUMBER: 125:195643
ORIGINAL REFERENCE NO.: 125:36647a,36650a
TITLE: 4-Aryl- and 4-heteroaryl-5-oxopyrazoline derivatives having pesticidal properties
INVENTOR(S): Boeger, Manfred; Maienfisch, Peter; Cederbaum, Fredrik; Pitterna, Thomas; Nadkarni, Pradeep Jeevaji; Ekkundi, Vadiraj Subbanna; Kulkarni, Surendra Umesh
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9621652	A1	19960718	WO 1995-EP5152	19951229

W: AL, AM, AU, AZ, BB, BG, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

CA 2210286	A1	19960718	CA 1995-2210286		19951229
AU 9644353	A	19960731	AU 1996-44353		19951229
EP 804422	A1	19971105	EP 1995-943223		19951229
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT, IE					
CN 1175248	A	19980304	CN 1995-197652		19951229
JP 10512248	T	19981124	JP 1995-521407		19951229
IN 1996DE00065	A	20050311	IN 1996-DE65		19960110
ZA 9600243	A	19960819	ZA 1996-243		19960112
BR 9600088	A	19980127	BR 1996-88		19960112
PRIORITY APPLN. INFO.:			CH 1995-108	A	19950113
			WO 1995-EP5152	W	19951229

OTHER SOURCE(S): MARPAT 125:195643

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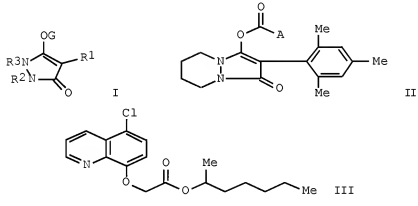

AB The invention relates to novel, pesticidally effective title compds. I [R1 = (un)substituted Ph, pyridinyl, or naphthyl; R2R3 = atoms to form (un)saturated, (un)substituted, (poly)cyclic system with optional addnl. non-terminal heteroatoms; G = -COA or -SO2B; A = (un)substituted alkyl, cycloalkyl, cycloalkoxy, adamantyl, naphthyl, etc.; B = (halo)alk(en/yn)yl, (halo)alkoxy, (halo)cycloalkyl, (un)substituted benzyl or naphthyl, substituted or cyclic amino]. Also disclosed are their compns., use as insecticides, acaricides, or herbicides, especially in crops of useful plants, and selective herbicidal compns. comprising compds. I with certain quinoline, pyrazole, or triazole-based safeners. For example, reaction of 3-hydroxy-4-mesityl-5-oxo-1,2-tetramethylenepyrazoline with (2-cyanoethyl)methylcarbamoyl chloride in THF in the presence of Et3N gave title compound II [A = NMeCH2CH2CN]. The latter at 400 ppm gave >80% control of mixed stages of Tetranychus urticae. The similarly prepared compound II [A = CMe2OCOBu-tert] at 2 kg/ha preemergence gave complete control of Avena and Setaria. Useful safeners, e.g. for maize or cereals, include compound III.

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

RECORD (12 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     FILE 'REGISTRY' ENTERED AT 11:15:17 ON 30 AUG 2011
L7                STR
L9          22054 SEA SSS FUL L7
L10               STR
L11             2 SEA SUB=L9 SSS FUL L10

     FILE 'HCAPLUS' ENTERED AT 11:22:03 ON 30 AUG 2011
L12             1 SEA ABB=ON  PLU=ON  L11
                  D STAT QUE L12
                  D IBIB ABS HITSTR L12 1

     FILE 'REGISTRY' ENTERED AT 11:23:02 ON 30 AUG 2011
L13         22052 SEA ABB=ON  PLU=ON  L9 NOT L11

     FILE 'HCAPLUS' ENTERED AT 11:23:05 ON 30 AUG 2011
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L17         17020 SEA ABB=ON  PLU=ON  MOTH+OLD/CV OR ANTIMOTH OR MOTH
L20             9 SEA ABB=ON  PLU=ON  L17 AND L14
L21             8 SEA ABB=ON  PLU=ON  L20 NOT L12
L22             6 SEA ABB=ON  PLU=ON  L21 AND (AY=<2003 OR PY=<2003 OR PRY=<2003
                  OR PD=<JANUARY 12, 2004)
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L24            37 SEA ABB=ON  PLU=ON  MOLLEYRES L?/AU
L25           163 SEA ABB=ON  PLU=ON  MAIENFISCH P?/AU
L26            76 SEA ABB=ON  PLU=ON  CEDERBAUM F?/AU
L27            49 SEA ABB=ON  PLU=ON  L23 AND (L24 OR L25 OR L26)
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L29            16 SEA ABB=ON  PLU=ON  L25 AND L26
L30             2 SEA ABB=ON  PLU=ON  (L23 OR L24 OR L25 OR L26) AND (L12 OR
                  L14)
L31            53 SEA ABB=ON  PLU=ON  (L27 OR L28 OR L29 OR L30)
L32            52 SEA ABB=ON  PLU=ON  L31 NOT (L12 OR L22)
                  D STAT QUE L32
                  D IBIB ABS HITSTR L32 1-52

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